

ABSTRACT OF THE DISCLOSURE

A video and graphics system processes video data including both analog video, e.g., NTSC/PAL/SECAM/S-video, and  
5 digital video, e.g., MPEG-2 video in SDTV or HDTV format. The video and graphics system includes a video decoder, which is capable of concurrently decoding multiple SLICES of MPEG-2 video data. The video decoder includes multiple row decoding engines for decoding the MPEG-2 video data. Each row decoding  
10 engine concurrently decodes two or more rows of the MPEG-2 video data. The row decoding engines have a pipelined architecture for concurrently decoding multiple rows of MPEG-2 video data. The video decoder may be integrated on an integrated circuit chip with other video and graphics system  
15 components such as transport processors for receiving one or more compressed data streams and for extracting video data, and a video compositor for blending processed video data with graphics.

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